TILLEY

REGD.

Heater — Model R55A

USE AND MAINTENANCE

How it works

Your Tilley Heater uses kerosene which is vaporized by spraying from a fine jet under pressure, and burned inside an incandescent mantle. The base of the Heater acts as the fuel container, and the kerosene is forced from it through the vaporizing tube by air pressure created in the container by a small hand pump. The control is an on/off knob at the base of the vaporizer. The Tilley Heater is economical in use, burning for about 48 hours on six pints of kerosene. It is easily carried by means of the handle, and having its greatest weight at the bottom will stand firmly on most surfaces. It is robust in construction, entirely safe in use, and needs a minimum of maintenance.

1 **No oil burning apparatus of any kind should be used in an unventilated room. An open fireplace or a slightly opened window, or the equivalent, is sufficient ventilation.**

2 **Never use gasoline in your Tilley Heater . . . it can cause a serious accident. Kerosene and gasoline tins should be clearly marked and stored well apart.**

To assemble your Tilley Heater R55

A Your Heater will come to you packed in a carton but note carefully that the Reflector 1175 and Guard 1176 will be in a separate carton at the bottom of the outer carton. The other necessary parts will be packed around the Oil Container and you should check that you have the following:—

Oil Container fitted with Control Cock 777 and Pump 439.

Handle Assembly 1215.

Vaporizer 169 with Cleaning Wire (DO NOT REMOVE FROM THE VAPORIZER).

Mantle 1126. Draught Shield 174.
Oil Funnel 129. Burner 1222.
Pre-Heating Torch 151 in Bottle 158.

Continued overleaf

THE TILLEY LAMP COMPANY LIMITED
Dunmurry Belfast Northern Ireland

B First take the Oil Container and remove from it the two wing nuts and lock washers situated on the upper part. Place the Handle 1215 in position and refit the wing nuts and washers. Tighten firmly.

C Make certain that the Control Cock is screwed tightly into the Filter Case on the Container. Turn the black Control Knob to "ON" ; that is, as far as it will go in an anti-clockwise direction.

D On the curve of the handle you will see three small nuts. Remove these, take the Reflector and slide it over the Control Cock. You will then be able to replace the three small nuts; tighten them firmly.

E Take the Vaporizer. Make sure the Cleaning Wire is still in it, screw the Vaporizer into the Control Cock, tightening firmly with the fingers. DO NOT USE PLIERS.

F Take the Burner. Unscrew the Mantle Nut at the bottom, leaving the Insulating Tube 165 in position. Slide on the Mantle replacing the Nut. Do not screw the Nut up too much, otherwise you will damage the Mantle.

G Now slide the completed Burner over the Vaporizer.

H Fit the Wire Guard on to the Reflector ensuring that the hinged portion is at the top. This hinged portion is to enable the Draught Shield to be placed over the Burner when lighting the Heater.

How to light up

The lighting procedure is simple and need cause no trouble. The vaporizer is first heated by denatured alcohol, then vapour is fed into it at low pressure. It ignites on contact with the mantle, and as the burner heats up pressure can be increased.

1 See that the Control Knob on the Cock is turned to "OFF"

2 Remove the Pump 439, insert the Oil Funnel and pour about 6 pints of kerosene into the Container; the Oil Indicator at the side of the Container will now read "FULL". Replace the Pump and tighten firmly BY HAND.

3 DO NOT pump at this stage.

4 Slide Draught Shield carefully over Burner, first lifting hinged portion of Guard.

5 Take the Torch Clip provided and soak in denatured alcohol (Solox).

Routine Maintenance

Your Tilley Heater is made to give a long life of efficient service, even under difficult conditions, and very little maintenance will be found necessary. The following points should be checked from time to time:

A All joints should be hand tight; pliers or wrenches must not be used.

B Washers should be checked for wear (see "overhaul" section).

C A worn Vaporizer may cause loss of heat, and should be replaced. Check first, by operating the Control Knob, that the cause of the trouble is not an easily removed carbon deposit on the jet.

Complete Overhaul

The best person to overhaul your Tilley Heater is your Tilley dealer. We give instructions here in case it should ever be necessary for you to do it yourself. When ordering spare parts, always give the part name and part number shown in the illustrations. This will prevent mistakes.

Dismantling

Always proceed in the order given below:

1. Detach the Guard.
2. Lift Burner from Vaporizer (take care not to damage the Mantle).
3. Unscrew and remove the Pump.
4. Turn Control Knob into "ON" position.
5. Empty all kerosene from the Container.
6. Unscrew and remove the Vaporizer.
7. Unscrew the two wing nuts securing the Handle Assembly to the Oil Container. This can now be removed complete with Reflector. Watch that the washers on the wing nuts are not lost.
8. Unscrew and remove Control Cock.

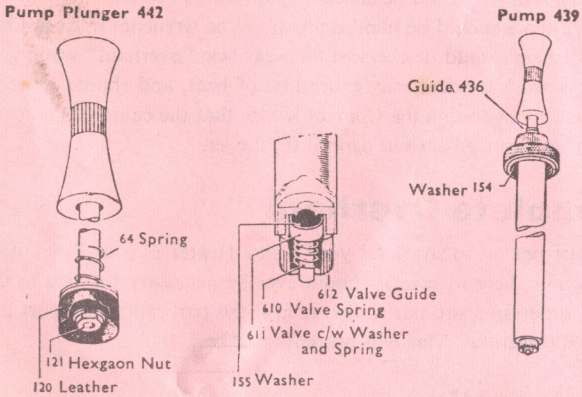
Proceed to overhaul as follows:

Inspection and Overhaul

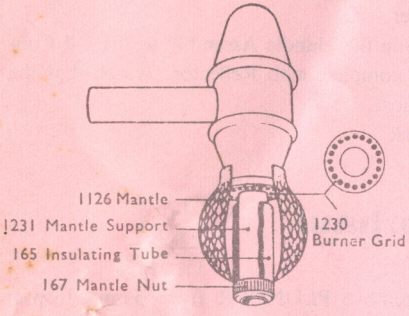
Pump 439

Unscrew PLUNGER GUIDE and remove PLUNGER from pump. Inspect LEATHER and ensure that it is soft and not puckered. If too hard apply a little lubricating oil. See that the HEXAGON NUT is tight. Unscrew VALVE GUIDE and inspect VALVE WASHER. See that it is clean. If it is badly worn or cut turn it over or renew.

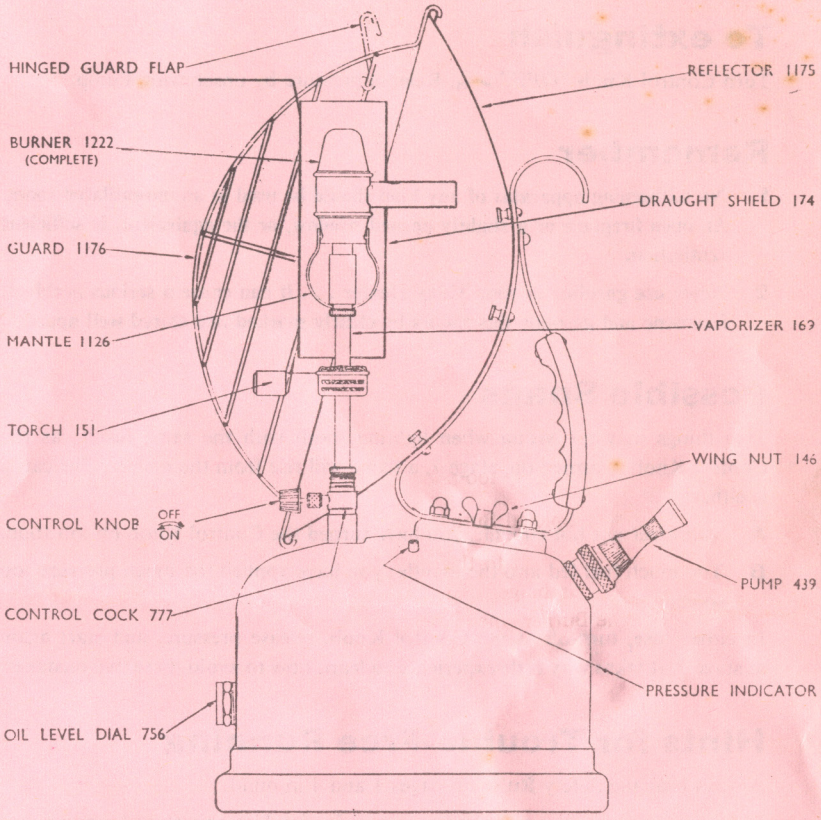
Replace VALVE and SPRING and tighten VALVE GUIDE. Refit Plunger taking care not to pucker the LEATHER. See that WASHER 154 is clean and not twisted or broken.



Burner 1222



Handle carefully to avoid damaging the mantle. Unscrew MANTLE NUT, remove MANTLE and INSULATING TUBE. If the TUBE is broken renew. The mantle is serviceable providing that it has no large holes. The Mantle support on which the Insulating Tube rests can after long use need renewal, and this is simply screwed out from the bottom of the Burner. You will find that when you do this you will also bring out the Burner Grid which is carried by the Mantle support. This also can require renewal after long use, but principally it is necessary to see that the holes are clear of carbon deposit.



6 Clip this to the Vaporizer of the Heater below Draught Shield and ignite.

7 After about two minutes, when the flame begins to burn low (not too low), turn the Control Knob on the Cock to "ON" ↶ and give a few GENTLE pumps.

8 The Heater should light with a "pop".

9 Continue pumping slowly until the centre of the Pressure Indicator on the Oil Container becomes level with the outer rim. DO NOT overpump. Remove Torch and Draught Shield.

To extinguish

Turn Control Knob "OFF" . Release pressure by unscrewing Pump.

Remember

1 **No oil burning apparatus of any kind should be used in an unventilated room. An open fireplace or a slightly opened window, or the equivalent, is sufficient ventilation.**

2 **Never use gasoline in your Tilley Heater . . . it can cause a serious accident. Kerosene and gasoline tins should be clearly marked and stored well apart.**

Possible Snags

Two things may go wrong when lighting, both with the same result; as the Control Knob is turned on, stage 7, a flame will rise from the mantle. The cause is either:

A Vaporizer not hot enough: you have turned the Control Knob on too soon.

B Too much fuel fed into the mantle: you have applied too much pressure too soon.

In either case, turn-off at the Control Knob, release pressure, and start again at stage 5. It takes very little experience to learn how to avoid these two mistakes.

Hints for Trouble-Free Running

Always bear the Safety Rules on pages 1 and 4 in mind.

Dirt in the kerosene can clog the fine vaporizing jet. Use only clean kerosene, and fill the container only with the funnel provided, which has a built-in gauze strainer.

Carbon formed by burning kerosene sometimes tends to clog the jet. Turn the Control Knob sharply on and off several times while the heater is burning; the Vaporizing Needle will clear the deposit.

A few strokes on the Pump will be necessary from time to time to restore pressure. If pressure is allowed to fall off too far, a light back may occur. It is easily recognised by the roaring noise. If it is allowed to continue, the burner may be damaged. Relight the heater **at once** by turning the Control Knob off and on several times and restoring pressure by pumping. It should not be necessary to extinguish and relight.

Container (See complete illustration).

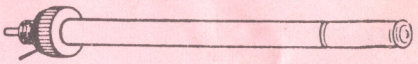
See that the Feed Tube is not blocked by pouring kerosene into the Filter Case (where the Control Cock fits). If the Feed Tube is blocked insert a piece of wire and work up and down until the stoppage is cleared. Rinse out the Container with a little kerosene, and empty as completely as possible.

Vaporizer 169

The Vaporizer will gradually become choked with carbon and require replacing about every 500 burning hours. Use of clean kerosene and the funnel will ensure that the life of the Vaporizer will be as long as possible.

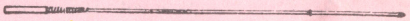
It is important that the jets and internal cleaning wire are not interfered with, otherwise operation of the lamp may be affected.

Vaporizer 169 (7″ long, approx.)



Washer 153

Cleaning Wire 150 (7″ long, approx.)

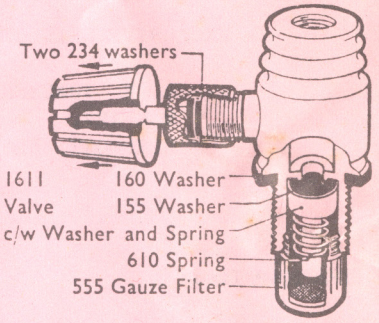


Control Cock 777

Unscrew Filter. Rinse in clean kerosene to clean the gauze. If the gauze is broken or badly choked, replace Filter as soon as possible.

Inspect Valve Washer and see that it is clean. If badly worn or cut, turn it over or renew. Replace Valve and Spring, refit Filter, tightening firmly.

If the Gland Nut is loose, lightly tighten with pliers, ensuring at the same time that the Control Knob Spindle is free to move



Replacing Gland Nut Washers 234 in Control Cock 777

1 Remove black Control Knob by pulling it off; it is held by an internal spring.

2 Unscrew Gland Nut, remove old washers, fit two new washers Type 234 and replace Gland Nut by screwing up firmly.

3 Replace Control Knob by pushing it on to Spindle, taking care that the key in the Spindle slides into the slot in the knob.

4 Ensure that the Control Knob Spindle is free to move.

Reflector

Wash with warm soapy water and polish with a soft cloth.

Re-Assembly

1 Screw Control Cock into Filter Case (finger tight).

2 Screw Pump in position.

3 Replace Handle Assembly complete with Reflector.

4 Turn the Control Cock "ON" ⌐ and replace the Vaporizer. Tighten firmly with the fingers, do not use pliers.

5 Slide Burner over Vaporizer.

6 Replace Guard.

EXCLUSIVE UNITED STATES IMPORTERS:

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CLERMONT, FLORIDA.

TYPE 1393/Issue 2

When You Mail the Registration Card Below, the Warranty On Your

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WARRANTY IS VOID UNLESS REGISTRATION CARD IS RETURNED WITHIN 10 DAYS OF PURCHASE

Tilley

Warranty Register Card

WARRANTY IS VOID UNLESS THIS CARD IS RETURNED WITHIN 10 DAYS OF DATE OF PURCHASE

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PLEASE PRINT PLAINLY

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I BOUGHT MY (HEATER) ☐ (LANTERN) ☐ (IRON) ☐

FROM _____ STREET NO. _____

CITY _____ STATE _____

DATE OF PURCHASE _____, 19__

THIS CARD REGISTERS YOU AS A "TILLEY" OWNER

Warranty

We warrant, to the original purchaser, this Tilley product and all parts thereof to be free from defects in material and workmanship under normal use and service. Our obligation under this warranty shall be limited to repairing or exchanging any part of the product which proves thus defective within ninety days from the date of delivery to the Original Purchaser, and which, when returned to us shall disclose to our satisfaction to be thus defective. This warranty is in lieu of all other warranties expressed or implied, and we neither assume, nor authorize any other person to assume for us, any other obligation or liability in connection with the sale of this product or any part thereof.

This warranty does not apply to this product or any part thereof which has been subject to accident, abuse or neglect, or to damage caused by fire or flood. This warranty also does not apply to the vaporizer after normal usage.

Exclusive Importer of Tilley Products
A. W. THACKER COMPANY
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Warranty is void unless registration card is returned to us within 10 days of date of purchase

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TILLEY

REGD.

lighting — heating

industrial and domestic

This Tilley product has been thoroughly tested at all stages in its manufacture. Please pay careful attention to the operating instructions and maintenance hints—and it will give you years of efficient and trouble-free service. Should you at any time experience any difficulties which your local dealer cannot put right, please do not hesitate to write to us.

TILLEY PRODUCTS
Use PARAFFIN/KEROSENE
NEVER PETROL/GASOLINE

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In the event of shortage or damage, please return this slip immediately with full particulars regarding complaint to the firm from whom you made the purchase.

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THE TILLEY LAMP COMPANY LTD.